



Climate change, zoonoses and India

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Abstract:

Economic trends have shaped our growth and the growth of the livestock sector, but at the expense of altering natural resources and systems in ways that are not always obvious. Now, however, the reverse is beginning to happen, i.e. environmental trends are beginning to shape our economy and health status. In addition to water, air and food, animals and birds play a pivotal role in the maintenance and transmission of important zoonotic diseases in nature. It is generally considered that the prevalence of vector-borne and waterborne zoonoses is likely to increase in the coming years due to the effects of global warming in India. In recent years, vector-borne diseases have emerged as a serious public health problem in countries of the South-East Asia region, including India. Vector-borne zoonoses now occur in epidemic form almost on an annual basis, causing considerable morbidity and mortality. New reservoir areas of cutaneous leishmaniasis in South India have been recognised, and the role of climate change in its re-emergence warrants further research, as does the role of climate change in the ascendancy of waterborne and foodborne illness. Similarly, climate change that leads to warmer and more humid conditions may increase the risk of transmission of airborne zoonoses, and hot and drier conditions may lead to a decline in the incidence of disease(s). The prevalence of these zoonotic diseases and their vectors and the effect of climate change on important zoonoses in India are discussed in this review.

Source: [http://web.oie.int/boutique/index.php?pageEuro Surveillance \(Bulletin Européen Sur Les Maladies Transmissibles; European Communicable Disease Bulletin\)ficprod&id_precEuro Surveillance \(Bulletin Européen Sur Les Maladies Transmissibles; European Communicable Disease Bulletin\)946&id_produitEuro Surveillance \(Bulletin Européen Sur Les Maladies Transmissibles; European Communicable Disease Bulletin\)1131&langEuro Surveillance \(Bulletin Européen Sur Les Maladies Transmissibles; European Communicable Disease Bulletin\)en&fichrechEuro Surveillance \(Bulletin Européen Sur Les Maladies Transmissibles; European Communicable Disease Bulletin\)1](http://web.oie.int/boutique/index.php?pageEuro%20Surveillance%20(Bulletin%20Europ%C3%A9en%20Sur%20Les%20Maladies%20Transmissibles;%20European%20Communicable%20Disease%20Bulletin)ficprod&id_precEuro%20Surveillance%20(Bulletin%20Europ%C3%A9en%20Sur%20Les%20Maladies%20Transmissibles;%20European%20Communicable%20Disease%20Bulletin)946&id_produitEuro%20Surveillance%20(Bulletin%20Europ%C3%A9en%20Sur%20Les%20Maladies%20Transmissibles;%20European%20Communicable%20Disease%20Bulletin)1131&langEuro%20Surveillance%20(Bulletin%20Europ%C3%A9en%20Sur%20Les%20Maladies%20Transmissibles;%20European%20Communicable%20Disease%20Bulletin)en&fichrechEuro%20Surveillance%20(Bulletin%20Europ%C3%A9en%20Sur%20Les%20Maladies%20Transmissibles;%20European%20Communicable%20Disease%20Bulletin)1)

Resource Description

Exposure :

weather or climate related pathway by which climate change affects health

Meteorological Factors, Temperature

Temperature: Fluctuations

Geographic Feature:

Climate Change and Human Health Literature Portal

resource focuses on specific type of geography

None or Unspecified

Geographic Location:

resource focuses on specific location

Non-United States

Non-United States: Asia

Asian Region/Country: India

Health Impact:

specification of health effect or disease related to climate change exposure

Infectious Disease

Infectious Disease: Foodborne/Waterborne Disease, Vectorborne Disease, Zoonotic Disease

Foodborne/Waterborne Disease: General Foodborne/Waterborne Disease

Vectorborne Disease: Flea-borne Disease, Fly-borne Disease, General Vectorborne, Mosquito-borne Disease, Tick-borne Disease

Flea-borne Disease: Flea-borne Diseases, General

Fly-borne Disease: General Fly-borne Disease

Mosquito-borne Disease: General Mosquito-borne Disease

Tick-borne Disease: General Tick-borne Disease

Resource Type:

format or standard characteristic of resource

Review

Timescale:

time period studied

Time Scale Unspecified